

**Optilan Jointing Terminate and Test
Copper Jointing, Sheath Closures & Testing Course - Programme Duration 5 Days**

<p>Day 1 AM Introduction to Copper Cables FTN Specifications for Jointing Dem 1. Types of Cables Dem 2. Unit Twin and concentric pair copper cables. Dem 3 Colour Codes of Unit Twin & Concentric Cables</p>	<p>Dem 4. Cable Sheath & Pair Preparation Practical 1. Removing sheath and exposing conductors. Dem 5. Preparing 50 pr. for Jointing Practical 2. Perparing Cable prior to Jointing and Jointing Gaps</p>	<p>Day 1 PM Copper Jointing Practical 3. Setting up Cable end for Jointing. Dem 6. Types of High Density and single Insertion Displacement Connectors. Practical 4. Joint 50 pair Unit Twin straight.</p>	<p>Practical 4. Continued. Practical 5. Break down 50 pair straight joint and cut in two 20 pair cables. Summary of critical stages of jointing 50 pair copper cables</p>
<p>Day 2 AM Dem 7 Terminating Unit Twin and Concentric pair copper cables onto High Density and single pair Insulation Displacement Connectors Practical 6. Terminate 50 pair Unit Twin onto 50 pair VX Connector</p>	<p>Lecture 1. Copper Transmission Lines Resistance Voltage and Current on D.C. Lines. Units of Measurement and magnitudes (Indices) FTN Specifications for D.C. Tests</p>	<p>Day 2 PM Continue with Practical 5. Break down 50 pair straight Joint and cut in two 20 pair cables Installing Continuity straps across jointing gap. Installing Sheath Gaps in cable</p>	<p>Dem 7. Measuring Conductor Resistance The three wire test. Measuring Insulation Resistance Practical 6. Measuring Insulation and Conductor Resistance Practical 7. Tap out 50 pair joints and measure I.R. Summary of D.C. Testing</p>
<p>Day 3 AM Dem 8. Shrink down closures on FTN Practical 7. Apply Shrink ndown closure to 50 pair / 20 pair / 20 pair joint multi-entry.</p>	<p>Lecture 2. Copper Transmission Lines Resistance Voltage and Current on A.C. Lines. Units of Measurement and magnitudes (Indices) Capacitance Inductance and Impedance. Maximum Power Transfer / Matching Impedances. FTN Specification for A.C. Tests DEM 8. Impedance Frequency Tests</p>	<p>Day 3 PM Practical 7. Impedance Frequency Tests and Recording information Dem 9. Crosstalk Measurements Practical 8. Measurement of Crosstalk Summary of A.C. Testing</p>	<p>Use of Test Equipment for Attenuation Frequency Tests & Crosstalk Testing</p>
<p>Day 4 AM Lecture 3 Copper Transmission Measurements. Use of Test equipment for DC Tests</p>	<p>Practical 8. Impedance Frequency Tests and Recording information Dem 9. Crosstalk Measurements Practical 9. Measurement of Crosstalk Summary of A.C. Testing</p>	<p>Day 4 PM Practical 7. Impedance Frequency Tests and Recording information Dem 9. Crosstalk Measurements Practical 8. Measurement of Crosstalk Summary of A.C. Testing</p>	<p>Preparing for Skill assessment Safe Use of Gas Typical JT & T activity on Network Rail</p>
<p>Day 5 AM Skill Assessment Prepare Cable ends for jointing Portasystem High Density Insulation Displacement System . Termination Exercise Joint Closure using XAGA500</p>	<p>Skill Assessment Cable Testing DC Tests Recording Measurements</p>	<p>Day 5 PM Skill Assessment Cable Testing AC Tests Recording Measurements</p>	<p>Summary of Course Assessment Questionnaire Course Review</p>